

Title (en)

Method and apparatus for encoding, decoding and transmitting data in compressed form.

Title (de)

Verfahren und Vorrichtung zur Kodierung, Dekodierung und Übertragung von Daten in komprimierter Form.

Title (fr)

Méthode et dispositif pour coder, décoder et transmettre des données sous forme comprimée.

Publication

EP 0350281 A1 19900110 (EN)

Application

EP 89306808 A 19890704

Priority

GB 8815978 A 19880705

Abstract (en)

Data compression and decompression utilising eg the Ziv-Lempel algorithm is simplified by utilising a tree structure for the dictionary in which alternative symbols at a given position in a symbol sequence (a,b,c) are linked by linking pointers R of a first type and successive symbols (ab,bc,ca,aba,abb,abc) are linked by linking pointers D of a second type. For example the sequence ab may continue with any one of the symbols a,b and c grouped together by R pointers in a list below the final symbol of the sequence ab. Each symbol is defined by an associated pair of D and R pointers, in conjunction with a parent pointer P which identifies its parent. Symbols having no D pointers extending therefrom are pruned from the tree and transferred to a free list as shown in Figure 8(b).

IPC 1-7

G06F 15/40; **H03M 7/40**

IPC 8 full level

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CPC (source: EP US)

G06T 9/005 (2013.01 - EP US); **H03M 7/3088** (2013.01 - EP US)

Citation (search report)

- [YD] EP 0127815 A2 19841212 - IBM [US]
- [AD] WO 8600479 A1 19860116 - TELEBYTE CORP [US]
- [A] EP 0148008 A2 19850710 - SHARP KK [JP]
- [AD] US 4464650 A 19840807 - EASTMAN WILLARD L [US], et al
- [Y] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 14, no. 11, April 1972, pages 3521-3522, New York, US; K. KOCH: "Representation of tree data structures for data manipulation and search operation"
- [A] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 20, no. 8, January 1978, pages 3320-3323, New York, US; N. WINTERBOTTOM: "General purpose database structure"
- [A] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 25, no. 11B, April 1983, pages 5886-5888, New York, US; R.A. CRUS et al.: "Method for deleting records from a hierarchical data base"

Cited by

CN104281604A; US5151697A; EP0688104A3; EP0714172A3; US5608396A; EP0698862A3; EP0674819A4; US5893102A; US5412384A; DE4342521C1; EP0595064A3; EP0718980A1; US5701468A; WO2010041028A1; WO2007134407A1

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